

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A system for analyzing medical treatment data associated with medical treatments for a plurality of patients to determine a medical treatment guideline based on actual treatment of a plurality of patients, the system comprising:

a memory for storing medical treatment data associated with medical treatments ~~[[for]]~~ actually delivered to a plurality of patients, the medical treatment data including a plurality of treatment parameters for each of the plurality of patients and a treatment parameter value associated with each treatment parameter ~~for each patient~~; and

a processor operatively connected to the memory and configured to compile ~~the medical treatment data according to~~ from the medical treatment data a plurality of treatment parameter values associated with a selected treatment parameter ~~for a plurality of patients and analyze the~~, analyze the compiled treatment parameter values ~~for the selected treatment parameter for determining, and determine~~ a medical treatment guideline in accordance with the analysis, the medical treatment guideline representing acceptable values for the selected treatment parameter.

2. (currently amended) The system of claim 1 wherein the analysis of the compiled treatment parameter values includes providing a statistical distribution of the compiled treatment parameter values ~~for the selected treatment parameter~~.

3. (currently amended) The system of claim 1 further comprising:

a database for storing preestablished ~~medication~~ medical treatment guidelines; and

wherein the processor is further configured to compare the compiled treatment parameter values ~~for the selected treatment parameter~~ to the acceptable values for the treatment parameter in the corresponding preestablished medical treatment guideline for the selected parameter.

4. (currently amended) The system of claim 3 wherein the processor is further configured to adjust the acceptable values for the ~~medical~~ selected treatment parameter in the preestablished medical treatment guideline as a result of the comparison to create an updated medical treatment guideline for the selected treatment parameter.

5. (original) The system of claim 3 wherein the processor is further configured to generate a report of the comparison.

6. (original) The system of claim 1 wherein the processor is further configured to generate a report of the analysis.

7. (canceled)

8. (currently amended) The system of ~~claim 7~~ claim 1 wherein the processor is further configured to integrate the determined medical treatment guideline into a database of preestablished medical treatment guidelines.

9. (currently amended) The system of claim 1 wherein the processor is further configured to determine a medical treatment guideline in accordance with the analysis, the medical treatment guideline representing an optimum value for the selected parameter ~~in accordance with the analysis.~~

10. (currently amended) The system of claim 1 wherein the medical treatment data includes patient physiological data, and the processor is further configured to analyze the treatment parameter values of the selected treatment parameter with respect to the corresponding physiological data for each ~~patient~~ of the plurality of patients and to determine a medical treatment guideline in accordance with the analysis, the medical treatment guideline representing at least one optimum value for the selected treatment parameter.

11. (currently amended) A system for analyzing medical treatment data to determine medical treatment guidelines associated with medication delivered to a patient by a medication administration device, the system comprising:

a plurality of medication administration devices for delivering medication to a plurality of patients;

a memory associated with each medication administration device for storing medical treatment data associated with the medication actually delivered to each ~~patient~~ of the plurality of patients, the medical treatment data including patient identification data, medication identification data and medication administration device operating parameters;

a central processor configured to receive medical treatment data from each of the medication administration devices;

a database operatively connected to the central processor for storing preestablished medical treatment guidelines representing acceptable values for the medical administration device operating parameters;

means for communicating medical treatment data from the medication administration device to the central processor;

wherein the processor is configured to compile ~~the medical treatment data according to~~ from the medical treatment data a plurality of parameter values associated with a selected medication administration device operating parameter for a plurality of patients and analyze, analyze the compiled the parameter values ~~for the selected medication administration device operating parameter for determining, and determine~~ a medical treatment guideline in accordance with the analysis, the medical treatment guideline representing acceptable values for the selected parameter.

12. (currently amended) A method for analyzing medical treatment data associated with medical treatments for a plurality of patients to determine a medical treatment guideline, the method comprising:

communicating medical treatment data associated with medical treatments [[for]] actually delivered to a plurality of patients, the medical treatment data including a plurality of treatment parameters for each of the plurality of patients and a treatment parameter value associated with each treatment parameter ~~for each patient~~; and

compiling from the medical treatment data ~~according to a plurality of~~
treatment parameter values associated with a selected treatment parameter for a plurality of
 patients; ~~[[and]]~~

analyzing the compiled treatment parameter values ~~for the selected~~
~~treatment parameter and;~~ and

determining a medical treatment guideline in accordance with the analysis,
the medical treatment guideline representing acceptable values for the selected treatment
 parameter.

13. (currently amended) The method of claim 12 wherein analyzing the treatment
 parameter values includes providing a statistical distribution of the treatment parameter values
 for the selected treatment parameter.

14. (currently amended) The method of claim 12 further comprising:
 storing preestablished medication treatment guidelines in a database; and
 comparing the compiled treatment parameter values ~~for the selected~~
~~treatment parameter~~ to the acceptable values for the treatment parameter in the corresponding
 preestablished medical treatment guideline for the selected parameter.

15. (currently amended) The method of claim 14 further comprising:
 adjusting the acceptable values for the ~~medical~~ selected treatment
 parameter in the preestablished medical treatment guideline as a result of the comparison to
 create an updated medical treatment guideline for the selected treatment parameter.

16. (original) The method of claim 14 further comprising:
generating a report of the comparison.
17. (original) The method of claim 12 further comprising:
generating a report of the analysis.
18. (canceled)
19. (currently amended) The method of ~~claim 18~~ claim 12 further comprising:
integrating the determined medical treatment guideline into a database of
preestablished medical treatment guidelines.
20. (currently amended) The method of claim 12 further comprising:
determining a medical treatment guideline in accordance with the analysis,
the medical treatment guideline representing an optimum value for the selected parameter in
accordance with the analysis.